

54269 to 54281—Continued.

54269. *BERBERIS QUINDUENSIS* H. B. K. Berberidaceæ. **Barberry.**

“(No. 622. Hacienda La Esperanza, near El Angel, Province of Carchi. June 13, 1921.) *Espino*. Plants collected at an altitude of about 11,500 feet. This is one of the handsomest of the wild barberries which I have seen in Ecuador. It makes an arborescent shrub up to 10 or 12 feet high, and has large glossy, stiff dark-green leaves. The orange-yellow flowers, which are produced in racemes about 3 inches long, are half an inch broad. They are followed by small clusters of oval blue-black fruits. The species is worthy of a trial as an ornamental.”

54270 to 54278. *PERSEA AMERICANA* Mill. Lauracææ. **Avocado.**
(*P. gratissima* Gaertn. f.)

54270. “(Nos. 612 and 626. Hacienda San Vicente, Ibarra, Ecuador. May 28 and June 15, 1921.) Budwood of avocado No. 47, *Tamayo*.”

For previous introduction and description, see S. P. I. No. 53182.

54271. “(Nos. 614 and 628. Ibarra, Ecuador. May 27 and June 15, 1921.) Budwood of avocado No. 49, *Egas*.”

For previous introduction and description, see S. P. I. No. 53183.

54272. “(Nos. 615 and 629. Ibarra, Ecuador. May 28 and June 15, 1921.) Budwood of avocado No. 50, *Chota*.”

For previous introduction and description, see S. P. I. No. 53184.

54273. “(Nos. 616 and 630. Ibarra, Ecuador. May 27 and June 17, 1921.) Budwood of avocado No. 51, *Carchi*.”

For previous introduction and description, see S. P. I. No. 53185.

54274. “(No. 631. Ibarra, Ecuador. June 16, 1921.) Cuttings of avocado No. 52, *Irumina*. The parent tree stands in a huerta at the Hacienda Irumina, only a few hundred feet from the house, at an altitude of 6,200 feet. This variety, which appears to be of the Mexican type, though the fruit is rather thick skinned for one of that race, is notable for the excellent quality of its deep-yellow flesh. The fruit is long and slender, not of very convenient form; it weighs about 10 ounces and has a medium-sized seed. While it may not prove to be an avocado of great commercial value, it is certainly worthy of a trial in California and Florida.

“Formal description: The parent tree is about 50 feet high, erect in habit, with a spread of about 30 feet. It is probably 20 years old if not more. The trunk is 18 inches thick at the base, forked at 10 feet, and gives off lateral branches at 18 feet. It is said to bear good crops. The leaves when crushed are faintly anise scented.

“The fruit is pyriform to very slender pyriform, necked; weight about 10 ounces, length 5 to 6 inches, greatest breadth $2\frac{1}{4}$ to $2\frac{3}{4}$ inches; base tapering, often curved to one side; stem inserted centrally, apex rounded to broadly pointed; surface light green, with numerous greenish yellow dots; skin scarcely 0.5 millimeters thick, rather firm and tough; flesh cream-yellow, pale green close to the skin, with very few fiber markings, the flavor very rich, nutty, and pleasant; quality excellent; seed conical, rather slender, medium sized, loose or tight in the cavity. Main ripening season at Irumina probably from December to March.

“The season at which it will ripen in the United States can not be ascertained without a trial in California and Florida.”

54275. “(No. 632. Ibarra, Ecuador. June 16, 1921.) Cuttings of avocado No. 53, *Imbabura*. The parent tree stands in the huerta at the Hacienda Irumina, only a few hundred feet from the house and about 50 feet from tree No. 52, at an altitude of 6,200 feet. This is a Mexican avocado of medium size (for that race), of good quality, and in every way a desirable fruit, so far as can be ascertained by a brief study of the variety. It will require a test